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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,928	03/22/2004	Raymond Elijah Barnett	TI-36636	1045
23494 7590 12/02/2009 TEXAS INSTRUMENTS INCORPORATED			EXAMINER	
PO BOX 6554	74, M/S 3999	NEGRON, DANIELL L		
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2627	
			NOTIFICATION DATE	DELIVERY MODE
			12/02/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Application No.	Applicant(s)			
Office Action Summary		10/805,928	BARNETT ET AL.			
		Examiner	Art Unit			
		Daniell L. Negrón	2627			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on <u>28 Au</u>	iaust 2009				
′=	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
3)[	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under z	x parte Quayle, 1900 C.D. 11, 40	0.0.210.			
Dispositi	on of Claims					
4)🛛	Claim(s) <u>1-20</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🛛	☐ Claim(s) <u>1-17</u> is/are allowed.					
6)🖂	⊠ Claim(s) <u>18-20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
·						
Applicati	Application Papers					
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
.0/						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
_	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	te			

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### DETAILED ACTION

# Response to Arguments

1. As a preliminary matter, with regards to the rejection of claim 18 under 35 U.S.C. 112, second paragraph of the previous Office action mailed May 29, 2009, it is noted that two issues were pointed out by the examiner, one of which (terms "cooperable" and "individually" contradicting each other) was remedied by the current amendment to the claim, the other (terms "differentially" and individually" contradicting each other) was not addressed in the current amendment or the remarks submitted by Applicant. Therefore, the rejection of claim 18 under 35 U.S.C. 112, second paragraph has been maintained.

Applicant's arguments filed August 28, 2009 have been fully considered but they are not persuasive. Applicant argues on pages 6 and 7 that Lacombe fails to explicitly disclose or suggest all of the limitations recited in amended claim 18. Examiner however, respectfully disagrees since the method disclosed by Lacombe discloses varying overshoot amplitudes through current sources 532 and 552, which vary the durations of the current pulses (see Fig. 8 where the current pulse response changes with respect to changes in overshoot amplitude).

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 18-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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4. Claim 18 recites "differentially and individually varying respective amplitudes and durations", which renders the claim indefinite since the terms "differentially" and "individually" contradict each other. Examiner cannot determine whether the amplitudes and durations are varied differentially or individually. Claims 19 and 20 are rejected by virtue of their dependency on claim 18.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Lacombe U.S. Patent No. 6,496,317.

Regarding claim 18, Lacombe discloses a method of providing a write current to an inductive head element in a disk drive system, comprising providing current pulses for individually defining a positive edge and a negative edge (e.g., signals WHX and WHY change the polarity of the write current pulses through the inductive head element) of the write current, differentially and individually varying respective overshoot amplitudes and durations (column 7, lines 61-65) of the positive edge current pulse and negative edge current pulse for counteracting induced imbalances in the write current (column 3, lines 21-25, column 7, lines 10-17 and 27-37). It is noted that by varying the amplitude of the overshoot current also varies the duration of the current (see Figs. 7 and 8).

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Regarding claim 20, Lacombe discloses a method further comprising providing a defined amplitude for each of the positive edge current pulse and the negative edge current pulse (column 7, lines 61-65 where the amplitude is defined by current sources 532 and 552).

# Allowable Subject Matter

7. Claims 1-17 are allowed.

Reasons for allowance are as discussed in the previous Office action mailed May 29, 2009.

#### Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is (571)272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniell L. Negrón/ Examiner, Art Unit 2627 November 23, 2009